GAUUA T

Reminiscent of the Hunting Lodge, New Franklin Is Popular Feature.

The Frankin Company is showing six distinct types this year, including one design known as the Club Sedan, which is bound to create a deal of favorable comment before the year is over. All the models preserve the characteristic French style sloping hood and the rounded dash section, which, developed into the body surfaces, presents a very plessing appearance. Brewster green, which has enjoyed a wide popularity for several seasons, continues to be the standard color of all types, except the four passenger roadster and the Club Bedan, both of which come in Damascan green, an attractive new color recently

Bedan, both or whiten come in January green, an attractive new color recently blended in the Franklin laboratories. The touring car which Franklin is exhibiting at the show is a special color job in Tiffany bronze. The rakish slant of the windshield and the low appearance of the car together with the comfortable of the car. together with the comfortable tilt to the seats, are noteworthy features.

In the runabout, Franklin engineers have succeeded in developing a car with a well arranged and comfortable seating compartment, at the same time working out exterior lines in fine proportion, a combination rather difficult to obtain in this type. The high light line, extending from the dash back to the rear of the hamper, is a new style element in this design.

The four-passenger roadster is shown in the new Damascan green. The box hamper gives a swagger touch to this model, which is noteworthy in that there is pienty of leg room provided, ample luggage space and yet the car has the compactness that defines the lyon. compactness that defines the type.

Some idea of the popularity of the brougham and the sedan may be gained

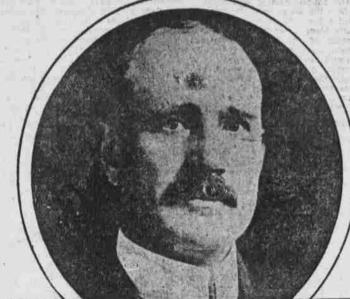
from the fact that these will form 47 per cent of Franklin production in 1920. Both models preserve

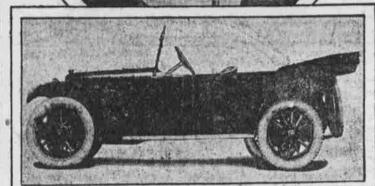
The club sedan is the Franklin Com-The club sedan is the Frankin Com-pany's answer to the growing demand for a real he-man's enclosed car—with-out any of the trappings or ornaments which are of especial interest to women. The severely simple, yet beautiful ap-pearance of the painted beamed ceiling, compliancest of a city club or a more. reminiscent of a city club or a sports-man's hunting lodge, gives to the car its name. The upholstery in neutral brown and green with a touch of silver is done in a new material known as Mohalin. made of best quality mohair and selected linen. It is the sort of uphol-stery that is "different" and will appeal to the masculine mind.

### IMPORTANCE OF THE FAN.

each operation calls for another 153 Owen-Magnetics.

C. W. Nash Announces a New Four.





the Nash Motors Company among the leading institutions in the automobile Nash Six. industry during the last three years,

one of the leading authorities on quan- Six and the line of Nash trucks.

OWEN-MAGNETICS'

C. W. Nash, whose record in placing tity production in the motor car inacclaimed as a worthy companion to the

The four cylinder car will be built in Both models preserve the well known slanting V front and the wide windows, which have helped give to these cars a Your.

Mr. Nash has long been recognized as exclusively in the building of the Nash

# PRODUCTION GROWS important territory where the Liberty has always been very popular.

Great New Plant Acquired-Likely Also to Have Additional Plant.

"With a tremendous demand for cars Among units of efficiency in the automobile, motor truck and tractor rarely tion is an extraordinaryily good one, begiven consideration by the owner is the cause the production of both Owencooling system. Circulation of water, the temperature of which is kept right greatly increased by the recent acquisity a fan, that's all in the average mind.

But one of the most delicate engineer. Tactories which already are in control.

the temperature of which is kept right by a fan, that's all in the average mind.

But one of the most delicate engineering problems of all is the construction of the proper fan. Its duty is to draw air in at an even rate through every square inch of the radiator, and to maintain this even air pull at all speeds of the motor.

So widely do opinions differ as to just what type the fan should be to do the best work possible that a most interesting series of tests guide the engineers of the Sparks-Withington Company of Jackson, Mich., in arriving at perfection.

The installation of a fan is followed by 153 readings. Seldom is a fan right the first time, blades must be reshaped, diameter increased of the secondaries of these companies of new too both these companies of new tion by 153 readings. Seldom is a fan right the first time, blades must be reshaped. diameter increased or decreased, pitch one, and for the first time in its history modified and other things changed, and there will be an adequate production of

THE CAR OF THE AMERICAN FAMILY

best appointed and most up-to-date es-tablishments of its kind in the world. The opening of this plant means that we are going to get many more Lib-ertys than we could hope to have under the old manufacturing plans. We will be able to adequately take care of this

"To keep pace with the greatly in-creased business that already is at hand we have opened in Long Island City one of the largest service stations in the metropolitan district. The personnel of our service and sales departments also has been increased to meet immediate and future needs,"

OAKLAND ACHIEVEMENT. "Oakland starts the new year with the ask of completing two of the largest ind most practical projects in the listory of the company," says President Fred W.

Speed changes made without gear shift-leg; gears are always in mesh. This is the modern principle back of transmission construction. Automotive engineers have been working for years in developing a transmission which would eliminate pear atripping and gear clashing. The result of their research and development is to be found on exhibition at the shown "The new Liberty factory is one of the Catta Jaw clutch transmission."

## WORLD RECORD CAR VORLD RECORD AC PLUGS USED IN

Helped Milton Drive 113 Miles and distance bow the knos. Dave Lewis and Jimmy Murphy, Se drivers, are credited with the following records: in Hour in His Due-

senberg.

After riding to victory with Tommy Milton in the Eigin road race and in three 1919 speedway events, AC spark pluga closed a season of achievement by firing the engine of the Duesenberg with which Milton crowded 113 miles within

sixty fleeting minutes.

In addition to establishing a new world's hour record Milton and his ACequipped car also smashed the records for both two and three hours and established new marks for all distances from

30 to 300 miles, Milton's crowning performances for a season of most consistent driving are as

miles \$1:02.0 miles 26:21.5 miles 52:41.4 miles 1:19:38.3 miles 1:45:38.4 miles 2:14:49.3 miles 2:44:15.4 HOUR RECORDS.

All these records, which were estab-lished on the Sheepshead Bay Speedway in the waning days of November, were made with an eight cylinder Duesen-berg in the 231-300 cubic inches piston displacement class. The engine speed for more than three hours of furious driving ranged from 3,300 to 3,500 revolutions per minute, and while this imposed a terrific strain upon the spark plugs the AC's functioned perfectly, ac-

Milton's achievement gives the Amer-Milton's achievement gives the American eagle a chance to scream at the chagrin of the British lion, for England has come to look upon the hour record as its own due to the feats of Percy Lambert's Talbot, which was the first car to crowd more than 100 miles within the hour, and of Jean Chassagne's Transport Bureau, will take part in the twelve cylinder Sunbean, which raised daily conferences.

ording to Milton.

cubic inches piston displacement re-spectively, in trials held at Sheepshead Bay a week before Milton made time

LEWIS-303.5 INCH CLASS. MURPHY-183 INCH CLASS.

1 hour..... 95 miles 2 hours.... 183 cles 3 hours.... 276 miles The record breaking time made by Murphy with the little Duesenberg can be used as a basis for estimating the speeds that will be made in this season's 500 mile race at Indianapolis and the 1920 French grand prix, since both of these classics are for cars of 183 cubic inches piston displacement or less.

### GOODRICH MEN TO SPEAK.

Prominent among those to participate in the comprehensive show week highway transport conferences will be S. V. Norton, Robert C. Hargreaves and Rayand Beck, all of the B. F. Goodrich

Rubber Company.

Mr. Norton is a widely known author ity on highway engineering and motor truck operation. He is the author of "Motor Trucks of America" and "The Motor Truck as an Ald to Business Profits."

Mr. Hargreaves was founder and sec-retary of the Highways Transport Committee of the Council of National Defence during the world war. He will lead the discussion on "Smoothing the Path for the Motor Truck" at Tuesday's

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of its production and secures first choice: - Space No. 1 at the National Automobile Shows.

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### BUICK MOTOR COMPANY

NEW YORK, 858 Livingston St. Broadway & 55th St. 45 William St. FACTORY-FLINT, MICHIGAN

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A. H. ZIMMERMAN Vice-President and General Manager Supreme Motors Corporation

# Hupmobile

It isn't its long life, alone, that makes people think the Hupmobile is the best car of its class in the world. They are influenced just as much by the car's consistent economy as they are by the years of continuous good service. Economy in The Comfort Carisn't an indefinite quantity, but a positive saving which registers itself every day in every month. By saving, we mean not only gasoline saving, but tire saving, and that still greater saving which results from marked infrequency of repair.

MARMON AUTOMOBILE CO. OF NEW YORK, Inc., 1880 BROADWAY AT 62nd ST., TEL. COLUMBUS 5000 HUPMOBILE COMPANY OF NEW YORK, Inc., 244-250 W. 49th STREET, TELEPHONE BRYANT 1546 CARVAN MOTORS CORPORATION, 35 17 HALSEY ST., NEWARK, N. J., TELEPHONE MULBERRY 2940

NUSUAL importance is attached to the announcement of the Supreme Motors Corporation to manufacture quality motors on a large scale production basis under the personal direction of A. H. Zimmerman.

The entire Supreme organization is composed of experts-men of long experience in building motors. The engineering department is headed by R. A. Weinhardt; the production department is in charge of V. M. Smith, both of whom formerly occupied similar executive positions with Continental Motors Corporation.

11-0V

The present facilities of Supreme Motors consist of modern new buildings, machinery and equipment specially designed and now ready for initial production of 100 motors a day with plans already under way providing for an increased capacity to 300 motors a day.

The present plans include the manufacture of a 4 and a 6 cylinder motor. Inquiries are welcomed from those desiring complete information.

SUPREME MOTORS CORPORATION, WARREN, OHIO

